

December 11, 2017

**BY HAND DELIVERY AND ELECTRONIC MAIL**

Luly E. Massaro, Commission Clerk  
Rhode Island Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, RI 02888

**RE: Docket 4755 – 2018 Energy Efficiency Program Plan  
Responses to PUC Data Requests – Set 2**

Dear Ms. Massaro:

I have enclosed ten copies of National Grid's<sup>1</sup> responses to the second set of data requests issued by the Rhode Island Public Utilities Commission in the above-referenced docket.

Thank you for your attention to this filing. If you have any questions, please contact me at 781-907-2121.

Sincerely,



Raquel J. Webster

cc: Docket 4755 Service List  
Jon Hagopian, Esq.  
Steve Scialabba, Division

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<sup>1</sup> The Narragansett Electric Company d/b/a National Grid (National Grid or Company).

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.



\_\_\_\_\_  
Joanne M. Scanlon

December 11, 2017  
Date

**Docket No. 4755 - National Grid – Energy Efficiency Program Plan for 2018**  
**Docket No. 4756 - National Grid – 2018 System Reliability Procurement**  
**Report (SRP)**  
**Service list updated 11/27/17**

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PUC 2-1

Request:

Has the Company ever enrolled mobile homes in its energy efficiency programs? If yes, please identify how many mobile homes were enrolled annually, the energy efficiency measures provided, and the costs of those measures.

Response:

National Grid has identified 3,042 electric accounts and 527 gas accounts that are identified as mobile homes in the customer database. Of those customers, 14% have participated in a home energy assessment energy efficiency program between 2009 – 2015 on the electric side and 1% on the gas side. The majority of the customers were served through their local Community Action Association with the Income Eligible program and received instant savings measures, weatherization, and heating system replacements. The Income Eligible program provides all cost effective energy savings measures at no cost to the customer. Some customers were served by the EnergyWise Single Family Retrofit program with similar measures.

The RI Weatherization Assistance Program held two Mobile Home trainings this year and several in-field trainings. Although many of the weatherization measures are similar to single family homes, the installation technique on a mobile home is different. The most unique measure is spraying the belly of the mobile home with two-part foam. The foam will effectively seal the leakiest part of the mobile home, including the duct work.

Mobile home customers may also receive home energy reports and are able to purchase residential lighting products and ENERGY STAR<sup>®</sup> appliances at reduced retail prices for upstream programs, such as residential lighting, or with mail-in rebates for ENERGY STAR appliances. Participation in these broader programs is available to all customers and is not reflected in the information below. The table below includes the details of the participation from 2009 – 2015.

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**Participation and Costs for Mobile Homes in residential programs by year**

<b>Year</b>	<b>Number of participating customers</b>	<b>Total costs (Income Eligible program)</b>	<b>Total costs (EnergyWise program)</b>
2009	25	\$ 25,655	\$ 1,255
2010	37	\$ 15,870	\$ 2,585
2011	37	\$ 26,444	\$ 956
2012	59	\$ 62,423	\$ 2,325
2013	76	\$ 55,951	\$ 8,651
2014	74	\$ 67,619	\$ 14,613
2015	105	\$ 112,790	\$ 16,199

List of measures installed and costs under Income Eligible program and EnergyWise program. Please note that although measure group names change over time, the measures provided to customers still include lighting, appliances, weatherization, and air sealing.

<b>Measure Groups</b>	<b>Total costs</b>
<b>2009</b>	<b>\$25,655</b>
Appliances	\$3,683
Efficient Shower head(s) (Non Elec)	\$13
Energy Saving Lightbulb(s)	\$2,013
Feet of Pipe Insulation	\$6
Other Insulation	\$19,721
TLC Kit*	\$220
<b>2010</b>	<b>\$15,870</b>
Air Conditioner Timer(s)	\$66
Air Seal	\$14
Appliances	\$10,499
Efficient Shower head(s)	\$8
Energy Saving Lightbulb(s)	\$4,849
Faucet Aerator(s)	\$3
Feet of Pipe Insulation	\$4
Pool Pump Timer(s)	\$14
TLC Kit	\$352
Windows and Doors	\$62

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<b>2011</b>	<b>\$26,444</b>
Appliances	\$16,418
Energy Saving Lightbulb(s)	\$8,906
Fluorescent Torchiere Lamp	\$197
Pool Pump Timer(s)	\$29
TLC Kit	\$895
<b>2012</b>	<b>\$62,423</b>
Air Conditioner Timer(s)	\$345
Air Seal	\$608
Appliances	\$12,006
Attic Insulation	\$14,800
Basement Insulation	\$280
Electric Heating System Measures	\$11,593
Energy Saving Lightbulb(s)	\$14,828
Health and Safety	\$210
Miscellaneous Measures/Others	\$3,004
Other Insulation	\$96
Smart Strips	\$371
TLC Kit	\$1,598
Wall Insulation	\$2,486
Weather stripping	\$198
<b>2013</b>	<b>\$55,951</b>
Air Conditioner Timer(s)	\$245
Appliances	\$18,384
Efficient Shower head(s)	\$15
Electric Heating System Measures	\$17,452
Energy Saving Lightbulb(s)	\$13,522
LED	\$3,358
Smart Strips	\$1,376
TLC Kit	\$1,598

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<b>2014</b>	<b>\$67,619</b>
Air Conditioner Timer(s)	\$80
Air Seal	\$40
Appliances	\$19,583
Efficient Shower head(s)	\$91
Electric Heating System Measures	\$30,111
Energy Saving Lightbulb(s)	\$10,268
Faucet Aerator(s)	\$5
LED	\$2,493
Smart Strips	\$3,362
TLC Kit	\$1,587
<b>2015</b>	<b>\$112,790</b>
AC Replacement	\$890
Air Seal	\$420
Appliances	\$28,711
Efficient Shower head(s) (Non Elec)	\$13
Electric Heating System Measures	\$34,350
Energy Saving Lightbulb(s)	\$4,480
Faucet Aerator(s) (Non Elec)	\$4
Health and Safety	\$604
LED	\$5,628
Miscellaneous Measures/Others	\$5,869
Pool Pump Timer(s)	\$29
Smart Strips	\$3,097
TLC Kit	\$1,639
Weatherstripping	\$156
Furnace	\$26,900

\*TLC kits contain a refrigerator brush, refrigerator thermometer, night lights, switch plate and outlet covers, and energy efficiency educational materials.

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**EnergyWise**

<b>Measure Groups</b>	<b>Total cost</b>
<b>2009</b>	<b>\$1,255</b>
Aerator	\$11
Lighting	\$1,176
Refrigerator Brush	\$5
Showerhead	\$62
<b>2010</b>	<b>\$2,585</b>
Lighting	\$1,654
Refrigerator	\$527
Refrigerator Brush	\$21
Thermostat	\$383
<b>2011</b>	<b>\$956</b>
Aerator	\$4
Lighting	\$942
Refrigerator Brush	\$10
<b>2012</b>	<b>\$2,325</b>
Lighting	\$1,762
Refrigerator	\$459
Refrigerator Brush	\$46
Smart strip	\$58
<b>2013</b>	<b>\$8,651</b>
Lighting	\$5,700
Refrigerator	\$1,250
Refrigerator Brush	\$93
Smart strip	\$953
Thermostat	\$655



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<b>2014</b>	<b>\$14,613</b>
Blower Door and Combustion Appliance Zone (CAZ) testing	\$90
Comprehensive Assessment	\$5,455
Lighting	\$7,330
Pipe insulation	\$6
Refrigerator Brush	\$155
Showerhead	\$20
Smart strip	\$1,324
Wall Lantern	\$234
<b>2015</b>	<b>\$16,199</b>
Blower Door and CAZ testing	\$375
Comprehensive Assessment	\$5,703
Lighting	\$8,013
Pipe insulation	\$18
Refrigerator Brush	\$165
Smart strip	\$1,641
Thermostat	\$285

PUC 2-2

Request:

Do you consider residents of mobile homes hard-to-reach customers? If yes, please identify the obstacles and any recommendations to removing those obstacles.

Response:

The Company has not analyzed whether mobile home customers would be considered hard-to-reach, or difficult to involve in participation. However, participation in the home energy assessments as a percentage of total residential accounts has been at or above the makeup of the mobile home population. From the participation research that covers the years 2009 – 2015 (shown below), mobile home participation has been trending upwards and meets or exceeds the percentage of accounts in this sector which is 0.8% of electric accounts and 0.2% of gas accounts.

<b>Fuel</b>	<b>% Mobile home electric accounts that participated in EE direct install programs</b>	<b>% Mobile home gas accounts that participated in EE direct install programs</b>
2009	0.8%	
2010	1.2%	
2011	1.2%	
2012	1.9%	0.2%
2013	2.5%	0.2%
2014	2.4%	0.2%
2015	3.5%	0.8%

There has never been specific mobile home marketing that can be included in 2018 to see whether that increases participation.